Saft’s SRA nickel-based battery range assures continuity of onboard auxiliary backup applications and delivers outstanding performance, especially in arctic and desert temperature extremes.

**Applications**

**All types of trains**
- Urban transport: metros, tramways, tram-trains, airport shuttles
- Regional transport: EMU, DMU (Electric and Diesel Multiple Units)
- Intercity transport: high-speed trains, electric locomotives, passenger coaches

**All types of function**
- Passenger safety: onboard signaling, security lighting, door control and communication networks
- Passenger comfort: ventilation, air-conditioning, lighting, Wi-Fi
- Fail-safe train start-up: pantograph lift-up, computing, electronics

**Benefits**
- Optimized performance for extreme temperatures
- Reduced installation footprint and lower weight (30% reduced volume and weight compared with a standard Ni-Cd battery)
- Reduced LCC (Life Cycle Cost) and improved LCA (Life Cycle Assessment)
- Customizable for specific needs
- Easy integration of standard cell design into customer battery systems

**Features**
- Saft’s Sintered/PBE Ni-Cd technology ensures reliable and predictable service life (20 years)*, without risk of sudden death
- Low maintenance:
  - topping-up interval up to 6 years or more
  - only one reconditioning operation in the battery service life

* The data provided are nominal values and actual results may vary depending upon application conditions.
Full conformity with quality, safety and environmental standards

- Electrical: exceeds the medium “M” type requirements of IEC 60 623, also significantly exceeds UIC 854 requirements
- Integration: EN 50547 railway auxiliary onboard battery
- Fire & smoke: NFF 16101-16102, DIN 5510-2, UNI IEC 11170-3, UL 94-V0, NFPA 130 for ASTM E 162 and E 662
- Shocks & vibrations: IEC 61 373
- Quality: ISO 9001, ISO/TS 22163 (IRIS), Saft world class continuous improvement program
- Environment: fully recyclable, ISO14001, RoHS, REACH
- Others: DIN 40771, BS 6260

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Available in three versions:
- SRA Standard for use between (-30°C to +50°C)
- SRA LT for low temperatures (-50°C to +40°C)
- SRA HT for high temperatures (-20°C to +65°C)

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Performance
- Designed for discharge levels of 2C5A continuous and 5C5A peak
- Optimized performance eliminates the need to oversize the battery

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Flexibility in capacity, container type and maintenance systems
- Single cell capacities range from 70 to 375 Ah
- Containers available in various plastics (FRpp, P, F2) and stainless steel containers
- Optional centralized water filling system

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Fully compatible with Saft’s railway battery systems
- Direct fitting within standard systems
- Customized battery boxes also available

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Batteries can be integrated into bespoke trays designed to suit specific applications

chargeability with temperature compensation (Std, HT, LT)